



C o u n t y o f S a n L u i s O b i s p o

GENERAL SERVICES AGENCY

Janette D. Pell, Director

Cody VanDorn, Department Administrator

INVITATION TO BID #3610-13 PORTABLE PIPELINE INSPECTION UNIT

May 31, 2013

The County of San Luis Obispo is currently soliciting bids for a Portable Pipeline Inspection Unit, as noted.

Each bid shall specify each and every item as set forth in the attached specifications. Any and all exceptions must be clearly stated in the bid. Failure to set forth any item in the specifications shall be grounds for rejection. The County of San Luis Obispo reserves the right to reject all bids and to waive any informalities.

Please submit your bids on the attached form. They must be received at the office of the General Services Agency no later than 3:00 p.m., June 11, 2013.

All questions pertaining to the content of this Invitation to Bid must be made in writing via e-mail to Eric Laurie no later than June 6, 2013 at: elaurie@co.slo.ca.us. All questions will receive a response within two (2) business days. The question and its response will be posted (anonymously) on the County's Purchasing web site located at:

http://www.slocounty.ca.gov/GSA/Purchasing/Current_Formal_Bids_and_Proposals.htm.

The County reserves the right to determine the appropriateness of comments/questions that will be posted on the website.

Any and all comments and suggestions are sincerely encouraged prior to the bid opening.

DEBBIE BELT
Buyer – GSA - Purchasing
dbelt@co.slo.ca.us

County of San Luis Obispo Invitation to Bid #3610-13 May 31, 2013 Page 2
PORTABLE PIPELINE INSPECTION UNIT

TO: ALL PROSPECTIVE BIDDERS

SUBJECT: LOCAL BIDDERS PREFERENCE

The County of San Luis Obispo has established a local vendor preference. All informal and formal bids for contracts will be evaluated with a 5% preference for local vendors. Note the following exceptions:

1. Those contracts which State Law requires be awarded to the lowest responsible bidder.
2. Public works construction projects.

A "local" vendor will be approved as such when, 1) It conducts business in an office with a physical location within the County of San Luis Obispo; 2) It holds a valid business license issued by the County or a city within the County; and 3) Business has been conducted in such a manner for not less than six (6) months prior to being able to receive the preference.

As of March 3, 1994 individual County Buyers evaluate bids considering the local vendor preference described above. The burden of proof will lie with bidders relative to verification of "local" vendor preference. Should any questions arise, please contact a buyer at (805) 781-5200. All prospective bidders are encouraged to quote the lowest prices at which you can furnish the items or services listed in County bids.

	YES	NO
Do you claim local vendor preference?		
Do you conduct business in an office with a physical location within the County of San Luis Obispo?		
Business Address: _____ _____		
Years at this Address: _____		
Does your business hold a valid business license issued by the County or a City within the County?		
Name of Local Agency which issued license: _____		

Business Name: _____

Authorized Individual: _____ Title: _____

Signature: _____ Dated: _____

TO: ALL PROSPECTIVE BIDDERS

**SUBJECT: POLICY ON PURCHASING PRODUCTS MADE WITH OR CONTAINING
CHLOROFLUOROCARBONS (CFC's)**

Summary

Many products contain chlorofluorocarbons (CFC's), a known depleter of ozone in the atmosphere. Under the U.S. Clean Air Act and the Montreal Protocol on Substances that Deplete the Ozone Layer, CFC production for use in industrialized nations is to be totally phased out by January 1, 1996. There are still many products on the market that contain CFC's or are made with CFC's. The Department of General Services, purchasing staff must identify products made with or containing CFC's and purchase alternative products whenever practical and possible.

Policy

To this end, it shall be the policy of the County of San Luis Obispo that all bidders, who wish to do business with the County are required to identify all products that contain CFC's or use CFC's in the manufacturing or shipping processes. Bidders are required to identify alternative products that do not use CFC's, for possible purchase by the County.

Bidder Response

	YES	NO
Do any products offered herein contain CFC's or use CFC's in the manufacturing or shipping process?		
If yes, please offer an alternative product by copying bid forms and submitting an alternate bid. Will you offer an alternate?		
Please provide any other information that may be helpful to the County. Attachments are acceptable.		

Bidder: _____

GENERAL CONDITIONS AND INSTRUCTIONS

1. All bids submitted by Seller to Purchaser should be submitted upon the attached bidder's form, completed and signed, (only typewritten or ink shall be accepted with no erasures or corrections unless properly authenticated by signature) in accordance with the instructions contained herein.
2. The issuance of this bid request creates no obligation on the part of the County and the County reserves the unconditional right at its option to either reject all bids or waive any irregularities or informalities therein. Each bid shall be in a separate sealed envelope with the bid number, name of bidder, title of the bid, date and time due showing on the outside of the envelope.
3. All prices must be firm for 45 days from the date of the bid opening and be inclusive. Upon award, prices will be in effect for the term of the contract.
4. If you offer any prompt payment discounts, please indicate this on your bid.
5. Awards will be made to realize the greatest savings to the County.
6. Submission of a signed bid will be interpreted to mean that the bidder has thereby agreed to all conditions, instructions, descriptions and specifications contained herein.
7. All materials included in the contract shall be in compliance with all Federal and State OSHA laws.
8. All applicable City, State, and Federal taxes and fees are to be included in the proposal.
9. The only terms that will be honored are those terms included in general and special conditions and instructions, purchase order or other documents issued by the County.
10. In the event of any conflicts or ambiguities between these instructions and State or Federal laws, regulations or rules, then the latter shall prevail.
11. Only one bid will be accepted per vendor.
12. Bidders may withdraw their bid either personally, by written request, or by telegraphic request confirmed in the manner specified above at any time prior to the scheduled closing time for receipt of bids. No bidder may withdraw their bid after the time set for the opening.
13. All time limits stated are of the essence. Any bids received after closing time stipulated will be returned unopened.
14. All bids must be submitted in a manner so they can be readily hole punched and placed in a standard legal size file folder.

15. The County may make partial payments after a substantial portion of the merchandise has been delivered. On all items, a 10% retention will be withheld until all merchandise has been accepted.
16. Brand names are used to establish a level of quality only. Any alternates must be approved five (5) days prior to the bid opening date, by the Buyer, who will have the sole right to make the determination. If an alternate is submitted without going through the above- described process, the County will have the sole right to decide whether or not an alternate is acceptable.
17. Vendor agrees that it will not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin and that it will comply with the "Contractor's Agreements" provisions of Presidential Executive Order No. 11246.
18. **NO FAXED** Bids will be accepted.
19. Return bid by June 11, 2013 at 3:00 p.m. to:

COUNTY OF SAN LUIS OBISPO
GENERAL SERVICES AGENCY
DEBBIE BELT, BUYER
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CALIFORNIA 93408

Specifications for RST Portable Pipeline Inspection Unit

Portable Mainline Video Inspection Private Eye 2 System with POSM Pro Software

The portable mainline inspection system shall be a fully functional mainline video inspection system that shall include an LED camera, steerable 6 wheel transporter, 1375 controller, cable reel with 500' of single conductor cable, basic down-hole equipment, handheld Camera/Tractor controller and POSM version video overlay. The system shall be versatile enough to operate and inspect 6" to 24" mainline and storm drain pipelines. The portable mainline controller shall be mounted on top of the wheeled cable reel providing ease for the complete system.

The portable system shall include the following as minimum:

1375 Portable Mainline Controller:

The controller shall provide all the DC power for video processing and control circuits for the camera and transporter system. The standard components shall be 15" NTSC LED flat panel color monitor, Digital Video Recorder, Hand Held Camera/Tractor Controller and Microphone with On/Off switch. A laptop for software collection to include; POSM Pro software, Mpeg video and Jpeg snapshots shall be provided.

- The 1375 controller shall be a self contained system housed in a crush proof rugged waterproof/air tight Pelican case with handle protecting the internal equipment controller.
- The controller/power supply shall provide the DC power and video processing to operate all the mainline equipment necessary to inspect pipe 4" to 120" through up to 1000' of single conductor cable.
- Power input shall be 120-240 VAC 60 Hz
- The controller shall have solid state circuit interrupter located within the controller providing for instant power shutdown when excessive output current is detected.
- The controller shall operate in a NTSC (National Television System Committee) Video format.
- The controller shall provide a plug-in receptacle for the remote hand held camera/tractor function controller with option for Push Button or Joystick controllers
- The input power shall be fully isolated from the camera and transporter DC power supply.
- The mainline controller face plate shall be permanently labeled designating the function or purpose of the various switches and controls.
- A built-in microphone and input plug for external microphone shall be provided
- Headlight control knob providing the power adjustment for lighting of the camera shall be a key component to the controller
- The controller shall provide as standard an on/off AC power switch, AC power indicator, camera power 'N' connector, an auxiliary controller plug and footage counter plug. A built-in microphone and input plug for external microphone shall be provided
- A single interconnect cable shall connect to the cable reel and footage counter for use with single conductor cable.

- The controller shall provide the support for software programs via a Laptop Computer.
- A 15" NTSC LED flat panel color monitor shall be located in the 1375 case
- The controller shall be equipped to provide a remote camera adjustment

- The remote handheld controller shall provide all the functions of the camera to include, iris, focus and zoom functions, pan and tilt of camera head. Transporter functions shall include three (3) speed forward, reverse and stop. The handheld controller shall be light weight and power coated blue.

Portable Cable Reel

The small maneuverable portable cable reel shall be designed for use in restricted access areas and have the ability to be stationary mounted in a vehicle providing the ability to do mainline inspection in limited access areas. The cable shall be capable of holding 1,000' with option for 1,500' single conductor cable.

The portable cable reel (CPR) shall include the following as minimum:

- The cable reel shall be capable of storing 1000' of single conductor coaxial cable with the option for 1,500'
- A ½ HP variable speed motor with internal triple reduction drive shall be provided to drive the drum.
- The power input to the reel shall be 120VAC 60Hz
- The dimensions of the cable reel shall be 24.5" wide X 26" in length X 36.5" and 42.5" with handles extended in the standard configuration and weight 75 lbs without cable.
- The drum shall be mounted to the frame with self-aligning ball bearings and be chain driven
- The cable reel shall be constructed of heavy-duty Aircraft Milspec 6061 Aluminum and be protected by a corrosion-resistant anodized finish.
- **Reels that are manufactured of steel and painted that are subject to rust and corrosion will be deemed un-acceptable**
- The reel shall operate on either generator or shore power using 110 Volts AC or 220 Volts AC
- Automatic level wind with mechanical footage readout and electronic encoder for the data collection software shall be installed into the cable reel frame
- A electronic sensor footage counter wheel shall be attached to the level wind follower to guide the cable while measuring cable travel and shall be accurate to + or – 1/0% and be available in either English or Metric
- The footage counter wheel shall also control an electronic sensor which provides the cable footage to the data collection system
- A chain drive shall connect the level wind shaft to the cable drum shaft for accurate timing of the rewind operation
- The mechanical counting meter shall be mounted on the level wind shaft to accurately indicate cable travel in feet and tenths of feet
- The footage counter wheel shall be machined with aircraft grade 6061-T6 aluminum and be anodized to minimize the effects of rust and corrosion
- A permanently sealed, mercury wetted slip ring assembly shall be provided to allow noise-free video transmission and maintenance free operation.

- **Systems using disc type, continuous contact, rotary slip rings are subject to wear and contamination shall not be acceptable**
- A switch shall allow the cable drum to be disengaged from the drive assembly allowing cable to be unreeled with minimum drag
- **Cable reels not allowing for freewheeling payout shall not be acceptable**
- The cable reel controls shall include an on/off switch, a rewind/freewheel switch and a variable speed control switch to allow for un-spooling and retrieving the armored cable
- The cable reel shall have the option of be mounted securely into a vehicle equipment room with a provision allowing for easy removal to remain portable
- Two posts handles for ease movement shall be provided for safe positioning over manhole
- Two (2) 10" Pneumatic wheels shall be provided to allow for easy movement of reel into restricted access areas in a portable situation

Single Conductor Transmission Cable

A combination double steel armored towing and transmission single conductor cable shall be provided in a continuous length up to 1000'.

- The cable shall have minimum **break strength of 5,400 lb** and shall be no more than ¼" in diameter.
- The cable shall be torque balanced to prevent unraveling or stretching.
- **Any system utilizing the cable armor as the sole system ground shall be deemed unsafe and unacceptable.**
- **The coaxial shield shall be used as a system ground. Any systems using the coaxial shield as power conductor shall be deemed unacceptable.**
- A cable grip shall be included to transfer the cable towing strength to the camera skid runners or camera transporter.
- To keep downtime to a minimum, a water tight, reusable bullet connector, allowing for simple in-field re-termination, shall be provided.
- The reusable bullet connector shall be constructed of durable stainless steel.
- The reusable bullet connector shall be protected by a delrin sleeve.
- A screw-on connector shall be provided for the transporter/camera connection.
- A metal screw-on protective cap shall be provided for protection of the reusable bullet connector.
- **Any system utilizing a "Y" connector to distribute power to the camera and tractor shall be deemed unacceptable.**
- **Any system not utilizing a reusable cable termination shall be deemed acceptable due to excess down time.**

Optional Features:

An extra wide frame shall allow the Portable Cable Reel drum to hold 1500 'of Single Conductor Cable

Pan, Rotate and Optical Zoom Camera with LED Lights

The Pan, rotate and zoom color camera shall be designed to inspect 6" diameter relined pipe and larger, providing close-up view of pipe wall and defects. The camera shall provide a sharp color picture while operating on single conductor cable.

The camera shall include the following as minimum:

- **Systems that use separate conductors for the camera, light power and video, therefore requiring heavy cable that is difficult to terminate in the field shall not be acceptable**
- The directional camera head shall be capable of 360-degree axial rotation and 270-degree lateral swing or any combination, enabling the 360-degree viewing of laterals perpendicular to the direction of camera travel
- The camera shall use long-life LED lighting adequate for 6" to 30" pipe. 54 ultra high intensity bright white LED's shall be built into the camera head
- The minimum sensor sensitivity shall be 0.2 lux adjusted for reduced shutter speed
- The camera shall be capable of operating under a minimum scene illumination of 2 lux to produce an NTSC video picture with horizontal resolution of 470 lines
- A f/4.2mm lens shall provide a 70-degree diagonal field of view
- Light intensity, lens focus, iris aperture, camera head rotation and swing shall be remotely controlled and adjusted from the viewing station.
- The camera shall have 31 adjustable LED lighting settings from off to full intensity and be fully functional with the lighting turned off.
- The camera shall have a default light setting when power is turned on
- The camera shall utilize microprocessors technology. Reprogrammable EEPROM memory shall be provided for future upgrades
- The camera housing shall be fabricated from hard black anodized aircraft aluminum, per MIL spec 6061, to resist scratching and corrosion
- A directional head shall have a distortion-free, scratchproof, optical grade sapphire glass window behind which the camera lens is located
- The camera shall have maximum body diameter of 1.875", rotational diameter of directional head shall be less than 3.5" allowing full swing and rotation of the head in 4" pipe, no part of the camera shall protrude more than 0.25" from the camera body
- Overall length of the camera shall not exceed 11" and have a weight of 10lbs.
- A single, sealed bulkhead connector at the back of the camera shall provide conduction of power to the camera and conduction of the video signal from the camera
- Cameras having more than one electrical feed for power shall be considered at high risk for leakage and corrosion shall not be acceptable
- Cameras rotating head shall be mechanically driven with a gear train and precision DC motors
- Cameras with rotating heads driven with belts that are subject to premature wear, shall be considered high maintenance and shall not be acceptable
- Operating temperature ranges of the camera shall be 0 degrees to 40 degrees centigrade and shall be sealed to withstand external pressure up to 50 psi without leaking
- A self-sealing pressure test port shall be provided on the camera bulkhead to check cameras leak resistance and for recharge with nitrogen
- A sharp true color image with at least 379,000 pixels, transmitted on video bandwidths only, producing a 1 volt video signal at the monitor after transmission through 2,500' of single conductor cable shall be provided
- Signal-to-noise ration shall be at 46dB with no geometric distortion of the image
- Remote control of pan, rotation, homing, optical zoom, manual focus, automatic focus, shutter speed, and manual iris shall be provided via the auxiliary desk top controller
- The camera shall have optical Zoom range:10x with digital Zoom range 4x (40x with optical zoom) total effective zoom ratio: 40:1

- Camera power shall be derived from the single conductor input by power supply within the camera, power supply shall limit power to the LED's regardless of controller voltage setting
- An automatic on-screen video display shall indicate excessive voltage at the camera regardless of cable lengths or other electrical loading.
- A color text generator shall be located in the camera and shall be capable of activation from the viewing station, enabling the user to check or adjust the color retention and contrast on the monitoring equipment
- A dual joystick desk top auxiliary controller shall be supplied providing all camera head movement functions, manual iris and focus control, home position function and camera lights off to full intensity control. Controller shall also incorporate all functions of the transporter.
- The camera shall be attached to the transporter using four ¼" x .20 stainless steel fasteners without the use of adaptor plates
- The camera shall be compatible with all RST Transporters
- Camera shall be able to be transported through the line via skids or tractor transporters
- Maintenance Kit one set of replacement parts, which includes but not limited to spare connectors, miscellaneous hardware and a system test cable shall be included with the camera

Options:

- **The camera shall have internal diagnostics to include temperature, air pressure and humidity**

Self Propelled Steerable Wheeled Camera Transporter

Self Propelled Remotely Controlled Steerable Camera Transporter shall be provided for inspection pipelines ranging from 6" to 30" in diameter. The transporter assembly shall be designed to operate optimally with 2000 ft. of single conductor cable, with the ability to position the camera and lighting system to the centerline of the pipe providing protection from offsets and in-line obstructions.

The Transporter shall include the following as minimum:

- The self propelled transporter shall be capable of inspecting 6" to 30" relined pipe
- The self propelled transporter shall be capable of operating on the same single conductor cable that operates the camera
- The Tractor shall connect to the single conductor cable using a reusable bullet connector constructed of durable stainless steel and protected by a Delrin sleeve, Tractors with moving bulkhead connectors that are high maintenance and expensive shall be deemed unacceptable
- The transporter shall accept controls from the system power control unit transmitting through a maximum of 2000' of cable
- The transporter shall be powered by two 90 watt rare earth permanent magnet motors, enclosed in a watertight housing, specifically designed to meet the power requirements for producing power to accept 6" and larger wheels without having to change gears regardless of the pipe size, internal controls shall automatically increase the torque when under heavy load.
- Heavy-duty motors shall incorporate over-voltage and temperature protections

PORTABLE PIPELINE INSPECTION UNIT

- Transporter shall be equipped with self-propelled power forward, three (3) speeds, stop, power reverse and free wheel capabilities and having the ability to steer around debris and obstacles within the pipe.
- The transporter shall have the ability to steer in both forward and reverse direction of travel and be capable of a complete 360 degree turn without moving laterally
- The tractor power reverse shall provide a free wheel mode for easy retrieval by the single conductor cable and reel to reduce wear on the drive motors
- The tractor shall be capable of negotiating 5/8" offsets and clearing 5/8" protruding laterals in 6" lines
- A tractor/camera combination shall be controllable from the same modular desktop control unit that plugs into the camera controller section of the power unit and shall be easily disconnected and stored when not in use. The desktop control unit shall be an all-in one unit controlling all functions of both the camera and transporter to include steer ability of tractor
- The tractor when loaded with a 10 lb. camera, shall be capable of speeds to 50 feet per minute and faster depending on pipe conditions
- Transporter shall have a water resistance per IPX7 and working temperature range of -10 degrees to + 40 degrees C
- Tractor length shall not exceed 14" and when loaded with a camera shall not exceed 26" in overall length with a base weight of 25 lbs
- All wheel drive, gear driven wheels shall employ ball-bearing supported steel precision machined high strength gears encased in brass
- The tractor body shall be machined from zinc plated brass plates, Anodized 6016 aluminum and 303 & 304 Stainless steel, fastened together to form a strong U-channel body. The center channel shall house a gear drive transmission
- Drive axles of the tractor shall be supported by individual bearings and sealed with Buna annular seals pressed into the tractor body to form a watertight barrier.
- Each wheel hub shall deliver uniform torque to its respective tire and have the ability to steer within the pipe allowing the operator to steer around obstacles in the pipe and into the manhole
- All solid-state electronic components shall be used throughout the transporter
- A Schrader valve allowing for internal nitrogen pressure checking and recharge shall be provided.
- A bottom ballast plate allowing for extra weight and traction in greasy pipe shall be provided as standard
- A variety of rubber tires shall be provided to include (6) standard rubber tires for inspection of 6" lines, (6) each rubber wheel for inspection of 8" to 10" and (4) each knobby wheel for inspection of 12" pipe and up with the use of an extension kit and lift kit
- All wheels shall be interchangeable with the use of a single fastener
- Transporter shall be shipped in diamond plate damage –resistant foam lined case.

Optional MegaTRAK Carbide Wheels

Nickel plated steel wheels with Carbide Grit Flake treads having Brass hubs available in three (3) sizes 2.7", 3.3" and 4.4" providing enhanced mobility through thick greasy pipe shall be available. Wheels shall be available in a kit format providing grit wheels, brass hubs and special tool for installation. Grit wheels shall add additional weight to increase traction of 50% over rubber tires.

Optional Items:

- Rear-viewing camera with LED lighting, usable in 6" and up pipe sizes shall use the same Desktop controller used for all the camera and tractor functions
- 512Hz Sonde Transmitter; powered by camera system shall not require the addition of batteries; Transmitter shall be molded into watertight rubber housing with plug in pigtail allowing for easy installation and removal not requiring the need for servicing of tractor or camera. Sonde Transmitters that are located with-in the camera or tractor requiring the need for expensive technical servicing shall be deemed unacceptable.
- Pneumatic wheels 2"X6" minimum of 12" for inspection of larger pipe sizes to 30"

Down Hole Equipment

The down hole equipment shall consist of top manhole roller, Tiger Tail and lowering rope;

- Top manhole roller shall be constructed of high strength steel and powder coated with a safety orange for visibility and durability. The roller shall be 4 ¼" in diameter and made of polyurethane being field replaceable
- Tiger tail assembly shall be constructed for high strength durable material for ease of inserting camera cable into manhole and have a 20 foot rope for retrieval of tiger tail from manhole
- The lowering rope assembly shall be constructed with 30' of 3 strand 5/8" nylon rope having a welded steel "D" ring on one end

Data Collection system:

Laptop; shall have as a minimum:

- Latitude E6500, Intel core 2 Duo T9600 with VT, 2.80 GHz, 1066 MHz 6M L2 Cache Dual Core
- 4.0 GB, DDR2-800 SDRAM, 2DIMM for Latitude
- 256MB Nvidia Quadro NVS 160M
- 128GB Dell Mobility Solid State Hard Drive, 2.5MM
- Black 15.4" LCD Wide Screen as minimum
- Genuine Windows 7 Professional, 32 bit w/media
- Dell Data Back-up and Recovery manager for windows 7
- 90 w3-pin AC Adapter
- Power Cord 3 ft
- 8X DVD+/-RW
- Cyber link Power DVD 8.3 with media
- Roxio Creator Dell Edition 10.3
- Dell AX210 two piece stereo speakers
- Intel Wi-Fi Link 5300 (802.11 a/g/n 3X3) ½ Mini-Card for VPRO
- 6 cell /54-WHr battery
- Three years Product support (Hardware)

P.O.S.M. Software shall have as minimum:

TEXT Overlay

A Decade Engineering XBOB 4 overlay with distance encoding shall be provided using 16 lines of text and 36 characters per line of text. The distance encoder shall be able to read standard quadrature pulses and provide text to the software application and onscreen to the user.

Live Video

A USB live video capture device 2253S Sensoray shall be used to provide the user with live video and snapshot images for observations.

Whole Run Video Recording

A USB MPEG4 encoder shall provide up to 720 x 480 30fps MPEG4 video and be able to pause the video stream in real time without the need to merge files after encoding.

Software:

Certification

The software shall and must be N.A.S.S.CO. Version 4.2 certified. The N.A.S.S.CO. Certification must accompany the bid. It shall and must be Neztek certified for transferring databases to Hansen or similar software systems. Any additional software/modules, required to comply with these certifications, shall be provided.

The pipeline inspection program shall be user friendly. Uncluttered, easy to follow menus and interfaces shall be implemented to allow quick data entry and minimal training. GPS software graphical shall be user interfaced and ease of use by the field operators

- The software must have the ability to generate custom reports which display pictures, video and observation data accompanied by accurate footage
- Software must be based on a Microsoft Access or SQL Server platform
- The overlay video footage display shall have the ability to display multiple fields during live video recording
- Footage during live mode, must have the ability to have distance changed at anytime
- The software shall display real-time video during inspection- as well as, the ability to stop the inspection, then restart the inspection and merge the videos
- The software shall have the ability to populate all specific asset information related to pipe segments into various fields through preloaded data
- Software session data shall have text boxes, drop down boxes, pre-defined drop down lists and check boxes for necessary pipe information as well as the ability to designate certain fields as mandatory
- The user shall be able to enter unlimited custom observations (faults) and entries
- Each observation shall be able to store up to fifteen pieces of information including start and end clock position, severity, first and second dimension, percent, joint, continuous (start/finish) defect and remarks.

- User shall be able to define optional data for each defect code in drop downs
- User shall be able to change the labels for each optional field. Edit Observation Labels (15 Custom Fields) and Edit Observation Drop Downs (for each of the 15 observation data fields).
- The software shall be able to load asset information from the header into the remarks drop down
- Up to 150 customizable fields shall be available for creating header reports/templates.
- While in a session, the user shall have the option of recording to a DVD disc as video and MPEG.
- User shall have the ability to write on screen and customize as many on screen session pages as necessary to show project and company information on MPEG videos
- Available project information shall include: project name, inspection number, contract number, upstream and downstream manhole numbers, operator names, inspection direction and client name.
- For each observation, the user shall be able to easily determine if optional inspection data fields/modifiers are required: Explain how this works
- If observation or field data is required, the software must indicate a warning prior to proceeding that the fields must be completed before an assessment can be added.
- All assessment data shall be saved automatically, in the OBDC access format, after each entry
- Software shall be able to use hardware MPEG 1 / 2 / 4 encoding
- Software shall be able to encode video into MPEG 4 / WMV
- Editing or deleting inspection data, including full streaming MPEG video, shall be an available feature at any time during a session.
- At any time, the user shall be able to print a full screen picture of any video and store pictures to be printed with reports.
- Text to speech spoken computer observations shall be provided whenever fault/assessment information is entered and or/reviewed.
- The system shall place audio data, faults and assessments, footage, position and severity onto the VCR/DVD recorder and MPEG videos
- Custom Defect Score Calculation sets must be able to be created
- Reverse Run Plot option shall be available to merge and continue inspection reporting from the opposite end of initial inspection start point when conditions call for restarting the inspection in reverse flow
- Software shall have inclination options for hardware vendors
- GIS data shall be easily entered into the system
- The user shall be able to search imported GIS information such as Asset ID, Start ID and End ID to add to project header information.

Reports:

Software reports must be in a format that can be reviewed on any operating system without having to purchase additional software to read reports

- Software shall be able to export field data and media files to a network drive.
- The reports shall indicate a color severity rating for all observation defects collected in the field based on user input or calculated from defect scoring
- A text file shall be generated along with the report that includes coordinates and observation data for each observation taken within the system.

- The inspection reports shall be fully customizable for filtering faults and entries for the generation of detailed reports.
- The user shall be able to control all viewable fields and picture size
- To give an overview of all faults, a manhole to manhole plot view report shall be shown.
- This report shall be capable of showing fault pictures.
- Summary reports, of any aspect of program data, shall be generated at will and stored as HTML files and be included with standard reports.
- The user shall have the ability to quickly send reports directly from the program to a folder on the hard drive, to the floppy disk drive or zip drive, CD-R, CD-RW, and DVD +/- R, DVD+/-RW or DVD-RAM.
- CD and/or DVD burning shall be integrated into the program thus allowing the burning process to be done with minimal effort.

County of San Luis Obispo Invitation to Bid #3610-13 May 31, 2013 Page 16
PORTABLE PIPELINE INSPECTION UNIT

The undersigned agrees to:

Deliver F.O.B. itemized below, and in accordance with Specifications attached. All equipment to be new and unused of the latest model year and all attachments shall be designated to be compatible with equipment proposed.

All equipment and accessories shall comply with the applicable State and Federal Codes, Regulations and Requirements.

Equipment shall be delivered serviced and ready to operate.

Delivery address: Public Works Booster Station, 18655 Ca State Highway 101, Santa Margarita CA 93453

Description of proposed equipment:

Make _____ Model _____ Year of Mfg. _____

Warranty _____

DESCRIPTIVE LITERATURE WITH COMPLETE SPECIFICATIONS MUST ACCOMPANY ALL BIDS. DEVIATIONS TO ATTACHED SPECIFICATIONS MUST BE CLEARLY INDICATED. NO DEVIATIONS UNLESS SPECIFIED BELOW OR ON ADDITIONAL SHEETS IF NECESSARY.

Technical support must be located within 200 miles of delivery address listed above. List tech support's physical location: _____

TERMS OF SALE _____

DATE OF DELIVERY _____ **GRAND TOTAL:** _____

Authorized Official Name (Print) _____

Authorized Official Title (Print) _____

Signature _____

Firm Name _____

Address _____

City _____ State _____ Zip Code _____

Telephone _____ FAX _____

Federal Taxpayer ID# _____

☐ Individual/Sole Proprietor

☐ Corporation

☐ Partnership

☐ Other

BIDS MUST BE RECEIVED BY 3:00 P.M., JUNE 11, 2013 AND
WILL BE OPENED IN THE OFFICE OF THE GENERAL SERVICES AGENCY
Bid #3610-13

County of San Luis Obispo Invitation to Bid #3610-13 May 31, 2013 Page 17
PORTABLE PIPELINE INSPECTION UNIT

Line #	Brand	Part #	Description	Unit Price	Qty	Extended Price
1	RST	011-02002-11	Private Eye 2 POSM Ready Portable Mainline System to include: (1) - 1375 Mini mainline system controller with POSM version video overlay (1) - Audio recording microphone (1) - Frame mounted, compact cable reel (1) - Single conductor, steel armored television cable, 500' (1) - Wheeled frame/cart assembly	\$	1	\$
2	RST	569-20283	Single Conductor, Steel Armored Cable, Per Foot	\$	500	\$
3	RST	010-01102-01	Auxiliary Handheld Controller with All Zoom Camera and Tractor Transporter Functions, Equipment Room	\$	1	\$
4	RST	040-04300-04	Winlogger P.O.S.M. Pro Data Acquisition Laptop System (1) - Winlogger P.O.S.M. Pro Laptop (1) - P.O.S.M. software with MPEG video and JPEG snapshots (1) - 30 day basic software support	\$	1	\$
5	RST	010-01655-30	TrakSTAR II Pan & Tilt Zoom Camera, NTSC, Single Conductor (1) - TrakSTAR II rotating head zoom camera, 6 pin, with LED lighting (1) - Camera Case	\$	1	\$
6	RST	032-02500-10	TranSTAR II Steerable, Inspection Transport Vehicle, Single Conductor (1) - Mainline steerable tractor, 6 pin (1) - Tractor to camera power cable (6) - Standard tires (1) - Tractor extension kit (1) - TranSTAR Insertion/Retrieval Assembly (1) - Tractor storage rack (1) - Tractor operations manual	\$	1	\$
7	RST	867-34822	High Traction Caster Wheel, TranSTAR Tractor	\$	6	\$
8	RST	840-35686	MegaTRAK wheel kit, TranSTAR Tractor includes: (6) - Hub assemblies (6) - 2.70" diameter wheel rings (6) - 3.30" diameter wheel rings (4) - 4.40" diameter wheel rings (1) - Snap ring pliers	\$	1	\$

County of San Luis Obispo Invitation to Bid #3610-13 May 31, 2013 Page 18
PORTABLE PIPELINE INSPECTION UNIT

9	RST	805-13737	Top Manhole Roller	\$	1	\$
10	RST	867-15975	Lowering Rope with "D" Ring, 35'	\$	1	\$
11	RST	569-18088	Tiger Tail	\$	1	\$
12	RST	867-34843	Additional Wheel Option - Knobby Balloon Wheel, TranSTAR Tractor	\$	4	\$
13	RST	052-39140	Camera/Tractor Sonde & Receiver - Location Detector/Receiver, Rycom Model 8873-SD	\$	1	\$
14	RST	806-37583	Camera/Tractor Sonde & Receiver - Cable, 3 Pin X 6 Pin with Sonde Transmitter, NovaSTAR or TrakSTAR Camera version	\$	1	\$
Sub Total (Taxable Items)						\$
Sales Tax 7.5%						\$
15	RST	950-33941	Technical Support, P.O.S.M. Pro Software, One Year (Nontaxable)	\$	1	\$
16	RST	950-18224	Warranty, Months: Camera and Tractor (Nontaxable)	\$	24	\$
17	RST	950-18224	Reel, Cable and Controller(s) Warranty, Months Lifetime Warranty on Dual LED Light Array on TrakSTAR Camera (Nontaxable)	\$	60	\$
Sub Total (Nontaxable Items)						\$
Shipping						\$
GRAND TOTAL						\$